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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

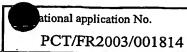
(PCT Article 36 and Rule 70)

Applicant's or exert's file - C	· · · · · · · · · · · · · · · · · · ·							
Applicant's or agent's file reference SGF263/80	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/41							
International application No. PCT/FR2003/001814	International filing date (d 16 juin 2003 (16		Priority date (day/month/year) 04 juillet 2002 (04.07.2002)					
International Patent Classification (IPC) or national classification and IPC C09D 5/44, C25D 13/04								
Applicant COMMISSARIAT A L'ENERGIE ATOMIQUE								
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of5 sheets, including this cover sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total of sheets.								
3. This report contains indications relating to the following items:								
I Basis of the report	[Basis of the report							
II Priority								
III Non-establishment of	f opinion with regard to nov	elty, inventive ste	p and industrial applicability					
IV Lack of unity of inver								
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;								
VI Certain documents cit								
VII Certain defects in the	VII Certain defects in the international application							
VIII Certain observations on the international application								
Date of submission of the demand	Date	Date of completion of this report						
27 janvier 2004 (27.01.2004)		22 November 2004 (22.11.2004)						
Name and mailing address of the IPEA/EP	Auth	Authorized officer						
Facsimile No.	Tele	hone No.						

Form PCT/IPEA/409 (cover sheet) (July 1998)

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT



I. Basis of the report								
1. With regard to the elements of the international application:*								
		the inte	emational application as originally filed					
	the description:							
		pages	1-39	, as originally filed				
		pages		, filed with the demand				
ľ		pages	, filed with the letter of					
	\boxtimes	the clair	ms:					
		pages	1-21	, as originally filed				
İ		pages	, as amended (together with any					
		pages		, filed with the demand				
		pages -	, filed with the letter of					
	\boxtimes	the draw	wings:					
		pages	1/8-8/8	, as originally filed				
		pages						
		pages	, filed with the letter of					
	ti	he sequer	nce listing part of the description:					
		pages		as originally filed				
		pages _						
		pages _	, filed with the letter of					
	~~~ III	elements the lang the lang	guage of a translation furnished for the purposes of international search (under Rule 23.1(b) guage of publication of the international application (under Rule 48.3(b)).  Guage of the translation furnished for the purposes of international preliminary examine	which is:				
3. I	With orelin	minary CA	to any nucleotide and/or amino acid sequence disclosed in the international appraamination was carried out on the basis of the sequence listing:  ed in the international application in written form.	olication, the international				
[								
Į	_		gether with the international application in computer readable form.  and subsequently to this Authority in written form.					
ļ	_	furnishe	d subsequently to this Authority in computer readable form.					
[		The state	tement that the subsequently furnished written sequence listing does not go beyo ional application as filed has been furnished.	nd the disclosure in the				
Ĺ		The stat	tement that the information recorded in computer readable form is identical to the winished.	ritten sequence listing has				
4. [		The ame	endments have resulted in the cancellation of:					
			he description, pages					
			he claims, Nos.					
			he drawings, sheets/fig					
5. [		This repo beyond th	ort has been established as if (some of) the amendments had not been made, since they have disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ave been considered to go				
a	nd 70	).17).	neets which have been furnished to the receiving Office in response to an invitation under as "originally filed" and are not annexed to this report since they do not contain	amendments (Rule 70.16				
** A	ny re _l	placemen	nt sheet containing such amendments must be referred to under item 1 and annexed to this	report.				

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims	1-21	YES.		
		Claims		NO		
	Inventive step (IS)	Claims	1-21	YES		
		Claims		NO		
	Industrial applicability (IA)	Claims	1-21	YES		
		Claims		NO		

2. Citations and explanations

Reference is made to the following document:

D1: EP 0 038 244 A.

Document D1, which is considered to be the prior art closest to the subject matter of claim 1, describes (the references between parentheses apply to said document) a method for depositing organic thin films on electrically conductive (metal) surfaces by electropolymerisation. The monomers used comprise a vinyl terminal bond conjugated with an electro-attractive functional grouping, for example, acrylonitrile or acrolein (cf. page 5, lines 5-11).

It follows that the subject matter of claim 1 differs from this known electrografted substrate in that the proportion of functional groupings available to form a chemical or other bond with a complementary grouping within the electrografted film is significantly less than 90% of the total number of organic functional groupings.

As a result, the subject matter of claim 1 is novel (PCT Article 33(2)).

The problem that the present invention is intended to solve can therefore be considered to be that of providing (semi) conductive surfaces functionalised by organic films with a wide variety of functional groupings of which as many as possible are available per unit area.

The solution to this problem, as proposed in claim 1 of the present application, is considered to involve an inventive step (PCT Article 33(3)), for the following reasons:

The aim in D1 was to deposit, on metal surfaces, uniform organic thin films that adhere well thereto. A person skilled in the art faced with the aforementioned problem could not, therefore, have found any indication in D1 that would have led to the claimed solution.

Claims 2-8 are dependent on claim 1 and therefore also fulfil, as such, the PCT requirements of novelty and inventive step.

The subject matter of claim 9 relates to a method for preparing a functionalised substrate as defined in claim 1 and is, as a result, also novel and inventive.

Claims 10-16 are dependent on claim 9 and therefore also fulfil, as such, the PCT requirements of novelty and inventive step.

Claims 17-21 relate to certain specific uses of the solid substrate defined in claim 1 and also fulfil the aforementioned requirements.